## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method, comprising:

installing a program onto a target machine, the program having <u>an</u> intermediate representation;

executing the program using the intermediate representation and an initial profile data;

generating a current profile data;

comparing the current profile data with the initial profile data; and

recompiling the intermediate representation to optimize the program when the current profile data in comparison with the initial profile data has exceeded a predetermined threshold.

2. (Previously Presented) The method of claim of claim 1, wherein installing further comprises:

installing a continuous compiler;

installing a runtime monitor;

copying the intermediate representation to the target machine;

building the initial profile data; and

compiling the intermediate representation to create an executable file.

(Previously Presented) The method of claim 1, wherein executing further comprises: 3.

running an executable version of the program;

collecting samples of process information at a controlled rate; and

while the target machine is idle, generating binary level and high level profiles.

4. (Previously Presented) The method of claim 1, wherein recompiling further comprises

customizing compiler optimizations based on the current profile data generated during

program execution.

Claims 5-10 (Cancelled)

11. (Currently Amended) A machine-readable medium having stored thereon data

representing sequences of instructions, the sequences of instructions which, when

executed by a machine, cause the machine to:

installing a program onto a target machine, the program having an intermediate

representation;

executing the program using the intermediate representation and an initial profile data;

generating a current profile data;

comparing the current profile data with the initial profile data; and

recompiling the intermediate representation to optimize the program when the current

profile data in comparison with the initial profile data has exceeded a predetermined

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threshold.

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12. (Previously Presented) The machine-readable medium of claim 11, wherein installing further comprises:

installing a continuous compiler;

installing a runtime monitor;

copying the intermediate representation of to the target machine;

building the initial profile data; and

compiling the intermediate representation to create an executable file.

13. (Previously Presented) The machine-readable medium of claim 11, wherein executing further comprises:

running an executable version of the program;

collecting samples of process information at a controlled rate; and

while the target machine is idle, generating binary level and high level profiles.

14. (Previously Presented) The machine-readable medium of claim 11, wherein recompiling further comprises customizing compiler optimizations based on the current profile data generated during program execution.

Claims 15-20 (Cancelled)

21. (Currently Amended) A system, comprising:

a target machine having a storage device, the storage device having stored therein a routine for transparent continuous compilation; and

a processor coupled with the storage device, the processor to:

install a program onto the target machine, the program having <u>an</u> intermediate representation and a continuous compiler;

execute the program using the intermediate representation and an initial profile data;

generate a current profile data;

compare the current profile data with the initial profile data; and

recompile the intermediate representation to optimize the program when the current profile data in comparison with the initial profile data has exceeded a predetermined threshold.

22. (Previously Presented) The system of claim of claim 21, wherein installation further comprises:

installing a continuous compiler;

installing a runtime monitor;

copying the intermediate representation to the target machine;

building the initial profile data; and

compiling the intermediate representation to create an executable file.

23. (Previously Presented) The system of claim 21, wherein execution further comprises: running an executable version of the program;

collecting samples of process information at a controlled rate; and while the target machine is idle, generating binary level and high level profiles.

24. (Previously Presented) The system of claim 21, wherein recompilation further comprises customizing compiler optimizations based on the current profile data generated during program execution.

Claims 25-30 (Cancelled)

31. (Currently Amended) An apparatus, comprising:

a storage medium,

a processor coupled with the storage medium, the processor to:

install a program onto the target machine, the program having <u>an</u> intermediate representation;

execute the program using the intermediate representation and an initial profile data;

generate a current profile data;

compare the current profile data with the initial profile data; and

recompile the intermediate representation to optimize the program when the current profile data in comparison with the initial profile data has exceeded a predetermined threshold.

32. (Previously Presented) The apparatus of claim of claim 31, wherein installation further comprises:

installing a continuous compiler;

installing a runtime monitor;

copying the intermediate representation to the target machine;

building the initial profile data; and

compiling the intermediate representation to create an executable file.

33. (Previously Presented) The apparatus of claim 31, wherein execution further comprises:

running an executable version of the program;

collecting samples of process information at a controlled rate; and

while the target machine is idle, generating binary level and high level profiles.

34. (Previously Presented) The apparatus of claim 31, wherein recompilation further comprises customizing compiler optimizations based on the current profile data generated

during program execution.

35. (Previously Presented) The apparatus of claim 34, wherein customizing compiler

optimizations is performed using annotations in a high level representation of an

executable program which relate portions of the executable to the high level

representation.